ATTACHMENT J1

Channel Islands ANG Station Electric Distribution System

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J1 Channel Islands ANG Station Electric Distribution System

J1.1 Channel Islands ANG Station Overview

The 146th Airlift Wing (AW) of the California Air National Guard occupies 206 acres of fee-owned land adjacent to the Point Mugu Naval Air Station, an active duty Navy flying installation. The Channel Islands ANG Station is located 50 miles northwest of Los Angeles in Port Hueneme, California. The mission of the 146th AW is to provide global military airlift capability to a full spectrum of state and federal agencies. The unit currently flies the C-130 Hercules. The 146th AW occupies two administrative, nine industrial, and four services buildings totaling approximately 345,191 square feet with 354 full-time personnel. A unit training drill is conducted once a month and results in a surge of up to a total of 1,204 personnel.

J1.2 Electric Distribution System Description

J1.2.1 Electric Distribution System Fixed Equipment Inventory

The Channel Islands ANG Station electric distribution system consists of all appurtenances physically connected to the distribution system from the point in which the distribution system enters the Installation and Government ownership currently starts to the point of demarcation, defined by the Right of Way. The system may include, but is not limited to, transformers, circuits, ductbanks, manholes, switchgear, switchgear panels, breakers, arrestors, fuses and meters. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the distribution system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service charge adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the electric distribution system privatization are:

?? Airfield Lighting.

?? Parking Lot Lights.

?? Street Lights

?? The overhead electrical system that runs through the northwest corner of the base and serves Building 1209 and the water well facility. Southern California Edison Company (SCEC) owns all of the overhead circuits, utility poles and pole-mounted transformers associated with this system. This system does not connect to any portion of the base owned underground system.

?? The two electric meters servicing the water well facility and Building 1209 are owned by SCEC

?? Lighting and communication lines which run throughout the duct bank system

J1.2.1.1 Description

Power is provided by Southern California Edison Company (SCEC) and enters the base at one location. It is delivered and distributed at 16.5 kV through an underground radially configured system. The primary distribution system consists of approximately 10,700 linear feet of 3-phase, 3-wire underground circuits rated at 25 kV and 10,700 linear feet of 600 V ground wire. The underground circuits are in multiple conduit ductbanks buried at an average depth of 18 inches and are not marked with tracer wire. The ductbanks vary in number of conduits from two to twelve and conduit diameter ranges from two to five inches. Multiple branches feed eleven 3-phase pad mounted transformers ranging from 75 to 750 kVA. The system includes 37 manholes, one main switchgear, two switchgear panels, twelve breakers, ten fuses, ten surge arrestors, and three meters. Base personnel indicate the capacity of the current system is adequate for present and future needs.

J1.2.1.2 Inventory

Table 1 provides a general listing of the major electric distribution system fixed assets for the Channel Islands ANG Station electric distribution system included in the sale.

TABLE 1
Fixed Inventory
Electric Distribution System Channel Islands ANG Station

Item	Size	Quantity	Unit	Approximate Year of Construction
Ductbanks				
Six conduits, (1-P, 1-T, 4-S)	4-inch PVC	5635	LF	1990
Two conduits, (1-P, 1-S)	5-inch PVC	100	LF	1990
Four conduits, (1-P, 1-T, 2-S)	3-4 inch PVC	459	LF	1990
Six conduits, (5-S, 1-T)	3-4 inch PVC	154	LF	1990
Four conduits, (2-P, 2-T)	2-4 inch PVC	128	LF	1990
Four conduits, (1-P, 1-T, 2-S)	4-inch PVC	1005	LF	1990
Twelve conduits, (4-P, 2-T, 5-S)	4-5 inch PVC	94	LF	1990
Eight conduits, (2-P, 1-T, 5-S)	3-4 inch PVC	250	LF	1990
Five conduits, (1-P, 1-T, 2-S, 1-L)	2-4 inch PVC	186	LF	1990
Seven conduits, (1-P, 1-T, 4-S, 1-L)	2-4 inch PVC	767	LF	1990
Two conduits, (1-P, 1-S)	4-inch PVC	1431	LF	1990
Two conduits, (1-P, 1-S)	3-inch PVC	446	LF	1990
Underground Circuits in Ductbanks	AWG			
3-ph, 3-wire, 25 kV	#2/0 Copper	10,655	LF	1990
1-wire, 600 V	#2 Copper	10,655	LF	1990
Transformers	Nom kVA			

Item	Size	Quantity	Unit	Approximate Year of Construction
3-phase, oil filled, pad mounted	75	3	EA	1990
3-phase, oil filled, pad mounted	112.5	2	EA	1990
3-phase, oil filled, pad mounted	150	1	EA	1990
3-phase, oil filled, pad mounted	300	1	EA	1994
3-phase, oil filled, pad mounted	500	2	EA	1990
3-phase, oil filled, pad mounted	500	1	EA	1994
3-phase, oil filled, pad mounted	750	1	EA	1990
Main Switchgear	Amperes			
Rated at 16.5 kVA	1200	1	EA	1990
Switchgear Panels	Amperes			
480/277 volts	800	1	EA	1990
480/277 volts	400	1	EA	1990
Breakers	Amperes			
	800	1	EA	1990
	400	1	EA	1990
	200	10	EA	1990
Bayonet Type Fuses	Amperes			
	200	8	EA	1990
	200	2	EA	1990
Surge Arrestors	Amperes			
	200	9	EA	1990
	200	1	EA	1990
Manholes	type			
7 ft x 8 ft x 7 ft deep	Pre-cast	31	EA	1990
7 ft x 10 ft x 7 ft deep	Pre-cast	4	EA	1990
5 ft x 10 ft x 7 ft deep	Pre-cast	2	EA	1990
Meters (see section J1.5 for details)				
		2	EA	1990
		1	EA	2000

Notes:

Ductbanks: P = power line
Ductbanks: T = telephone/communications line
Ductbanks: S = spare conduit
Ductbanks: L = line used for lighting
AWG = American Wire Gauge

Item	Size	Quantity	Unit	Approximate Year of Construction
EA = each				
LF = linear feet				
Nom kVA = nominal kilovolt -amperes				
kVA = kilovolt -amperes				
ph = phase				
kV = kilovolts				
V = Volts				
FT = feet				

J1.2.2 Electric Distribution System Non-Fixed Equipment and Specialized Tools

Table 2 lists other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment, vehicles, and tools.

TABLE 2
Spare Parts
Electric Distribution System Channel Islands ANG Station

Qty	Item	Make/Model	Description	Remarks
None				

TABLE 3
Specialized Vehicles and Tools
Electric Distribution System Channel Islands ANG Station

Description	Quantity	Location	Maker
None			

J1.2.3 Electric Distribution System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system.

TABLE 4
Manuals, Drawings, and Records
Electric Distribution System Channel Islands ANG Station

Qty	Description	Remarks
1	Electrical Utility System Maps (Paper copy)	No AutoCAD Available

J1.3 Specific Service Requirements

The service requirements for the Channel Islands ANG Station electric distribution system are as defined in the Section C Description/Specifications/Work Statement. The following requirements are specific to the Channel Islands ANG Station electric distribution system and are in addition to those

found in Section C. If there is a conflict between requirements described below and Section C, the requirements listed below take precedence over those found in Section C.

Although the ductbanks are being turned over to the successful offeror, those ducts not currently used for electrical lines will be reserved for the exclusive use of the government. Additional ducts may be made available to the successful offeror at the discretion of the Contracting Officer.

J1.4 Current Service Arrangement

?? **Current Provider:** Southern California Edison Company

?? **Average Annual Usage (2000):** 3,409,220 kWh

?? **Maximum Monthly Usage**: 341,000 kWh (July)

?? **Minimum Monthly Usage**: 259,500 kWh (November)

?? **Peak Demand:** 823 kW

J1.5 Secondary Metering

J1.5.1 Existing Secondary Meters

Table 5 provides a listing of the existing (at the time of contract award) secondary meters that will be transferred to the Contractor. The Contractor shall provide meter readings for all secondary meters IAW Paragraph C.3 and J1.6 below.

TABLE 5
Existing Secondary Meters
Electric Distribution System Channel Islands ANG Station

Meter Location	Meter Description
Building 1602 (Engine Test Cell) meter beside the transformer inside the switch panel	3 phase kilowatt/hour (kWh) consumption meter (glass covered can meter), 1990
Building 950 (PPIF Pad) meter is located on the wall inside mechanical room of Building 901 which is adjacent to Building 950. (this meter will need to be relocated)	E-Mon Corp. Model #208200 Digital 4 wire 120/208/240 200 Amps consumption meter, 2000
Building 801 (Maintenance Hangar) meter is located on the transformer at the northwest corner of Building 801	3 phase kWh consumption meter (glass covered can meter), 1990

J1.5.2 Required New Secondary Meters

The Contractor shall install and calibrate new secondary meters as listed in **Table 6**. New secondary meters shall be installed IAW Paragraph C.13 Transition Plan. After installation, the Contractor shall maintain and read these meters IAW Paragraphs C.3 and J1.6 below.

TABLE 6
New Secondary Meters
Electric Distribution System Channel Islands ANG Station

Meter Location	Meter Description
None	

J1.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the person identified at time of contract award.

2. Outage Report. The Contractor's monthly outage report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the person identified at time of contract award.

3. Meter Reading Report. The monthly meter reading report shall show the current and previous month readings for all secondary meters. The Contractor's monthly meter reading report will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the person identified at time of contract award.

4. System Efficiency Report. If required by Paragraph C.3, the Contractor shall submit a system efficiency report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the person identified at time of contract award.

J1.7 Energy Saving Projects

IAW Paragraph C.3 Requirement, the following projects have been implemented on the distribution system by the Government for energy conservation purposes: None.

J1.8 Service Area

IAW Paragraph C.4 Service Area, the service area is defined as all areas within the Channel Islands ANG Station boundaries.

J1.9 Off-Installation Sites

No off-installation sites are included in the sale of the Channel Islands ANG Station electric distribution system.

J1.10 Specific Transition Requirements

IAW Paragraph C.13 Transition Plan, **Table 7** provides a listing of service connections and disconnections required upon transfer.

TABLE 7

Service Connections and Disconnections
Electric Distribution System Channel Islands ANG Station

Location	Description
Building 950 (PPIF Pad) meter is located on the wall inside mechanical room of Building 901 which is adjacent to Building 950.	Electric meter will need to be moved by the contractor to a new location to be determined by installation upon privatization

J1.11 Government Recognized System Deficiencies

Table 8 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the Channel Islands ANG Station electric distribution system. If the system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades and Renewals and Replacements Plan process and will be recovered through Schedule L-3. Renewal and replacement projects will be recovered through Sub-CLIN AB.

TABLE 8
System Deficiencies
Electric Distribution System Channel Islands ANG Station

Project Location	Project Description
None	